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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/029,414	12/20/2001	Kent A. Franklin	KCC 4785 (KC# 16,648B)	3743

321 7590 07/06/2004

SENNIGER POWERS LEAVITT AND ROEDEL
ONE METROPOLITAN SQUARE
16TH FLOOR
ST LOUIS, MO 63102

EXAMINER

FISCHER, JUSTIN R

ART UNIT

PAPER NUMBER

1733

DATE MAILED: 07/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/029,414

Applicant(s)

FRANKLIN ET AL.

Examiner

Justin R Fischer

Art Unit

1733

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 29,30 and 35-43 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 29,30 and 35-43 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>2.5.6</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of a method of applying an elongate member to a substrate in the reply filed on April 21, 2004 is acknowledged.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 29-30 and 35-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heikkila (WO 90/09159) in view of Hermann (US 5,500,075, of record). As best depicted in Figures 1 and 2, Heikkila is directed to a method of forming a diaper comprising applying a pair of elastic band assemblies 4, 5 (elongate member) to a liquid permeable surface layer 1, wherein each of the elastic band assemblies are formed of at least one elastic band (Page 3, Lines 30-35). Furthermore, it is evident from the above noted Figures that the securement paths of the elastic band assemblies are varied along the lateral direction of the garment and additionally, the individual elastic bands are oscillated within the securement paths to define a zigzag orientation. Thus, the securement path itself varies in the lateral direction and the arrangement of the elastic bands within the securement path varies in the lateral direction- this is consistent with the claimed invention. However, Heikkila is completely silent as to the specific method of manufacture, particularly the use of a guide assembly that varies

laterally to adjust the securement path and the use of a guide that varies laterally in relation to said guide assembly to define a zigzag orientation within said securement path. In any event, one of ordinary skill in the art at the time of the invention would have found it obvious to use a guide assembly and a guide in the method of Heikkila since such a method is commonly used in the arrangement of elastic strands in the manufacture of diapers, as shown for example in Hermann (Figure 15). In the method/apparatus of Hermann, a guide is attached to a guide assembly, wherein said guide is rotatably attached to said guide assembly and thus has the capability of varying the position of the elastic bands within a given securement path. One of ordinary skill in the art at the time of the invention would have recognized that these methods, which are well known and extensively used in the diaper industry, would be applicable in the diaper manufacturing process of Heikkila, it being emphasized that Heikkila is completely silent as to any processing steps regarding the securement path and the zigzag orientation within the securement path.

Regarding claims 30, 39, and 40, it is evident from Figures 1 and 2 of Heikkila that the individual elastic bands have a zigzag or wave pattern within the securement path.

As to claims 35, 36, and 43, the guide assemblies are commonly rotated along an arcuate path in the arrangement of elastic strands, as expressly depicted by Hermann in Figures 8 and 15. Also, the guide assemblies include a positioning arm that supports the guide in a spaced relation from the guide assembly, wherein the movement of the guide assembly along an arcuate path results in the lateral movement

of the guide, which itself is independently rotatable within the securement path (Hermann describes the guide as being "freely pivotable" about a shaft at the end of a swing arm or positioning arm).

With respect to claims 37 and 38, as noted above, Heikkila suggests that each of the elastic band assemblies is formed of at least one elastic band- as depicted in Figures 1 and 2, 2 elastic bands are included in each elastic band assembly. One of ordinary skill in the art at the time of the invention would have found it obvious to include a second guide in the method of Heikkila since the elastic strands of Heikkila have oscillating patterns that intersect one another. Thus, a suitable means to accommodate the different arrangements of the elastic strands within each assembly would be a second guide- in this instance, the first and second guides would be independently rotatable (with respect to the guide assembly) in order to impart a different arrangement for each elastic strand.

As to claims 41 and 42, as noted above, the guides are independently rotatable such that different wave patterns can be imparted into respective elastic strands. Absent any conclusive showing of unexpected results, it would have been within the purview of one of ordinary skill in the art at the time of the invention to provide a desired wave pattern for each of the elastic strands. With specific respect to claim 42, Figures 1 and 2 of Heikkila do show a single elastic band assembly in which a first elastic band has a negative wave pattern with respect to a second elastic band (the elastic bands have a crossed or intersecting wave pattern).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Blenke (US 5,525,175, of record) and Popp (US 6,585,841) disclose a method in which an elastic strand is arranged on a moving substrate, wherein said method includes the use of a guide assembly and a guide, the guide being freely rotatable with respect to the guide assembly.

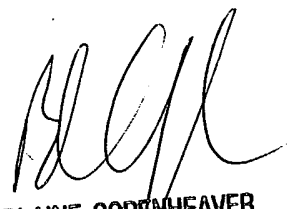
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Justin R Fischer** whose telephone number is **(571) 272-1215**. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (571) 272-1226. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Justin Fischer

July 1, 2004


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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700